

The Commonwealth of Massachusetts

1920

ASSESSMENTS

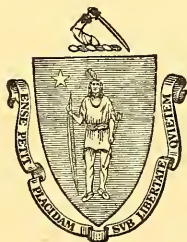
FOR

INTEREST, SINKING FUNDS, SERIAL
BONDS, AND MAINTENANCE

OF THE

METROPOLITAN DISTRICTS

ISSUED BY THE
TREASURER AND RECEIVER-GENERAL



BOSTON
WRIGHT & POTTER PRINTING CO., STATE PRINTERS
32 DERNE STREET
1920

The Commonwealth of Massachusetts

TREASURY DEPARTMENT, Sept. 8, 1920.

Under the provisions of chapter 526 of the Acts of 1911 the following computations for annual assessments for interest, sinking fund, serial bond payments and maintenance for 1920, to be paid by the cities and towns comprising the metropolitan district, are compiled and printed as a public document and herewith submitted.

There have been issued during the year 1920, on account of the metropolitan district, bonds to the amount of \$509,000; of these, \$225,000 bear interest at the rate of $4\frac{1}{2}$ per cent, and \$284,000 bear interest at the rate of $4\frac{1}{4}$ per cent. These bonds are divided as follows:—

Metropolitan Parks, Series 2, Loan.

\$250,000 ($4\frac{1}{4}$ per cent). Chapter 175, General Acts of 1919, providing for the completion by the Metropolitan Park Commission of boulevards and roadways already authorized by law. Fifty per cent of the annual serial bonds and interest requirements shall be assessed and paid by the cities and towns of the metropolitan district, and 50 per cent by the Commonwealth.

Metropolitan Sewerage Loan, South System.

\$225,000 ($4\frac{1}{2}$ per cent). Chapter 237, General Acts of 1919, providing for the completion of the Wellesley extension of the south metropolitan sewerage system. Bonds to the amount of \$675,000 have already been issued for this purpose. The annual serial bonds and interest requirements shall be assessed and paid by the cities and towns of the metropolitan district, south system.

Metropolitan Water Loan.

\$14,000 ($4\frac{1}{4}$ per cent). Chapter 165, General Acts of 1919, providing for an additional water supply for the town of Milton and the Hyde Park district of the city of Boston.

\$20,000 ($4\frac{1}{4}$ per cent). Chapter 167, General Acts of 1919, providing for an additional supply of water for the town of Lexington.

The annual serial bonds and interest requirements shall be assessed and paid by the cities and towns of the metropolitan water district.

Under chapter 443 of the Acts of 1920 a new basis for determining the annual assessments upon the cities and towns within the metropolitan parks district was established.

CHAPTER 443, ACTS OF 1920, APPROVED MAY 13, 1920.

AN ACT TO ESTABLISH A BASIS FOR DETERMINING THE ANNUAL ASSESSMENTS UPON THE MUNICIPALITIES WITHIN THE METROPOLITAN PARKS DISTRICT FOR INTEREST, SINKING FUND AND SERIAL BOND REQUIREMENTS AND COST OF MAINTENANCE.

Be it enacted, etc., as follows:

SECTION 1. The proportions in which each of the cities and towns of the metropolitan parks district, including Cohasset with respect to Nantasket beach reservation only, shall annually pay money into the treasury of the commonwealth to meet the interest, sinking fund and serial or other bond requirements for each year and any deficiency in the amounts previously paid in, as estimated by the state treasurer, shall be as follows: — The city of Boston shall pay as a special assessment sixteen and two thirds per cent of the money so required on account of the amount expended for construction of the marginal conduit on the Boston side of the Charles river basin as heretofore determined by the apportionment commission appointed by the supreme judicial court in the year nineteen hundred and ten; the city of Cambridge shall pay as a special assessment sixteen and two thirds per cent of the money so required on account of the amount expended for construction of the marginal conduit on the Cambridge side of the Charles river basin as heretofore determined by the said apportionment commission; and the payment of the balance shall be based upon the respective taxable valuations of the property of said cities and towns of the metropolitan parks district.

SECTION 2. The proportion in which each city and town of said district shall annually pay money into the treasury of the commonwealth to meet the cost of maintenance of reservations, exclusive of Nantasket beach reservation and the Charles river basin, and any deficiency in the amounts previously paid in, as found by said treasurer, shall be apportioned according to the average percentage of valuation and population, determined as to any city or town by adding together the percentage which the valuation

of the same bears to the total valuation of the cities and towns of the district and the percentage which the population of the same bears to the total population of the cities and towns of the district, and dividing this sum by two.

SECTION 3. The proportion in which each city and town of the metropolitan parks district, including Cohasset with respect to the maintenance of Nantasket beach reservation only, shall annually pay money into the treasury of the commonwealth, to meet the cost of maintenance of said reservation and the Charles river basin and one half the cost of maintenance of boulevards and any deficiency in the amounts previously paid in, as found by said treasurer, shall be based upon the respective taxable valuations of the property of said cities and towns. The remaining half of the cost of maintenance of boulevards shall be paid by all the cities and towns of the state as a part of the annual state tax.

SECTION 4. The metropolitan district commission shall annually, in accordance with the provisions of the foregoing sections, determine the proportion in which each of the cities and towns of said district shall annually pay money into the treasury of the commonwealth to meet the interest, sinking fund and serial or other bond requirements and the cost of maintenance of reservations and boulevards, and shall transmit the determinations of the commission to the state treasurer.

SECTION 5. The amount of money required each year from every such city or town to meet the interest, sinking fund and serial or other bond requirements and the cost of maintenance aforesaid, and the deficiency, if any, shall be estimated by the state treasurer, in accordance with the proportions determined as aforesaid by said commission, together with any amounts required by law to be specially assessed upon any particular city or town, and shall be included and made a part of the sum charged to such city or town, and shall be paid by such city or town into the state treasury at the time required for the payment of its proportion of the state tax.

SECTION 6. This act shall apply to the apportionment and payment of interest, sinking fund and serial or other bond requirements and costs of maintenance by said cities and towns for the year nineteen hundred and twenty and each year thereafter. For the purposes of this act, the words "taxable valuations of the property of cities and towns" shall mean taxable valuations of property last established next prior to such apportionment by the general court as a basis of apportionment for state and county taxes; and the words "population of the cities and towns" shall mean the population as determined by the latest census, state or national, next prior to such apportionment.

SECTION 7. This act shall take effect upon its passage.

JAMES JACKSON,

Treasurer and Receiver-General.

Total Assessments for Metropolitan Districts for 1920.

CITIES AND TOWNS.	Metropolitan Water.	Metropolitan Parks and Boulevards.	Metropolitan Sewerage, North and South Systems.	Charles River Basin.	Total.
Arlington, . .	\$23,603 88	\$15,249 54	\$18,945 58 ^N	\$2,299 90	\$60,098 80
Belmont, . .	13,440 08	9,788 98	11,661 00 ^S	1,499 18	36,389 24
Boston, . .	1,885,924 91	884,913 01	{ 100,545 47 ^N 320,757 57 ^S }	231,785 97	3,423,926 93
Braintree, . .	—	6,495 22	—	1,091 59	7,586 81
Brookline, . .	—	51,558 84	85,939 62 ^S	10,929 79	148,428 25
Cambridge, . .	—	92,006 16	136,545 79 ^N	41,523 92	270,675 87
Canton, . .	—	4,238 07	—	759 20	4,997 27
Chelsea, . .	59,247 66	26,114 45	42,296 59 ^N	4,357 19	132,015 89
Cohasset, . .	—	216 33	—	—	216 33
Dedham, . .	—	8,571 45	14,579 76 ^S	1,595 81	24,747 02
Dover, . .	—	1,511 41	—	332 14	1,843 55
Everett, . .	57,061 77	26,745 57	43,309 83 ^N	4,663 68	131,780 85
Hingham, . .	—	4,369 33	—	808 44	5,177 77
Hull, . .	—	5,454 58	—	1,265 16	6,719 74
Lexington, . .	9,156 47	—	5,254 64 ^N	—	14,411 11
Lynn, . .	—	66,732 66	—	11,683 12	78,415 78
Malden, . .	54,639 20	33,243 89	48,786 65 ^N	4,803 03	141,472 77
Medford, . .	38,174 66	28,595 07	34,344 10 ^N	3,905 85	105,019 68
Melrose, . .	23,153 10	12,381 78	19,111 76 ^N	2,177 13	56,823 77
Milton, . .	13,261 28	11,035 84	18,537 12 ^S	2,275 66	45,109 60
Nahant, . .	4,323 90	2,296 33	—	504 59	7,124 82
Needham, . .	—	6,204 88	—	1,194 40	7,399 28
Newton, . .	6,557 62	47,046 06	76,861 69 ^S	8,960 82	139,426 19
Quincy, . .	85,259 00	37,146 33	54,305 19 ^S	5,701 67	182,412 19
Reading, . .	—	—	12,266 29 ^N	—	12,266 29
Revere, . .	35,210 63	16,837 78	26,431 96 ^N	2,761 41	81,241 78
Saugus, . .	—	5,684 56	—	876 28	6,560 84
Somerville, . .	127,505 74	62,170 94	89,939 26 ^N	9,693 89	289,309 83
Stoneham, . .	11,488 42	5,368 97	7,263 45 ^N	746 73	24,867 57
Swampscott, . .	13,764 93	8,154 02	—	1,624 15	23,543 10
Wakefield, . .	—	8,759 73	13,847 34 ^N	1,533 09	24,140 16
Waltham, . .	—	20,959 06	36,630 74 ^S	3,680 39	61,270 19
Watertown, . .	38,534 77	17,134 15	27,861 53 ^S	3,195 66	86,726 11
Wellesley, . .	—	8,450 67	18,583 73 ^S	1,789 62	28,824 02
Weston, . .	—	3,570 45	—	595 68	4,166 13
Westwood, . .	—	1,469 09	—	297 59	1,766 68
Weymouth, . .	—	9,184 66	—	1,538 89	10,723 55
Winchester, . .	—	10,105 02	15,193 51 ^N	1,990 94	27,289 47
Winthrop, . .	17,975 50	10,492 30	15,538 04 ^N	1,843 92	45,849 76
Woburn, . .	—	10,794 97	17,157 65 ^N	1,863 69	29,816 31
	\$2,518,283 52	\$1,581,652 15 ¹	\$1,312,495 86 ²	\$378,150 17 ³	\$5,760,581 70

N, North System.

S, South System.

¹ Includes \$36,534.18, special assessments for Alewife Brook, Neponset Bridge, Newton-Weston Bridge and Wellington Bridge.² Includes \$17,895.24, special assessments on Everett and Malden, Reading, Revere and Wellesley.³ Includes \$50,103.92, special assessments on Boston and Cambridge, and \$25,591.40, embankment interest on Boston.

Special Metropolitan District Assessments for 1920.

CITIES AND TOWNS.	Alewite Brook.	Neponset Bridge.	Newton-Weston Bridge.	Wellington Bridge, Serial Bonds and Interest.	Wellington Bridge, Maintenance.	Metropolitan Sewerage.	Charles River Basin Bridge, Sinking Fund and Interest.	Charles River Embankment, Interest.	Total.
Arlington,	\$2,281 31	-	-	-	-	-	-	-	\$2,281 31
Belmont,	1,615 93	-	-	-	-	-	-	-	1,615 93
Boston,	-	\$6,240 00	-	-	-	-	\$25,051 96	\$25,591 40	56,883 36
Cambridge,	4,467 58	-	-	-	-	-	25,051 96	-	29,519 54
Everett,	-	-	-	-	-	\$1,746 67 ^{N1}	-	-	1,746 67
Malden,	-	-	-	\$1,823 90	\$2,336 93	1,746 67 ^{N1}	-	-	5,907 50
Medford,	-	-	-	2,244 80	2,876 22	-	-	-	5,121 02
Newton,	-	-	\$1,790 00	-	-	-	-	-	1,790 00
Quincy,	-	4,680 00	-	-	-	-	-	-	4,680 00
Reading,	-	-	-	-	-	7,000 00 ^{N2}	-	-	7,000 00
Revere,	-	-	-	-	-	626 67 ^{N3}	-	-	626 67
Somerville,	1,140 65	-	-	1,543 30	1,977 40	-	-	-	4,661 35
Stoneham,	-	-	-	350 75	449 41	-	-	-	800 16
Wellesley,	-	-	-	-	-	6,775 23 ⁴	-	-	6,775 23
Weston,	\$9,505 47 ⁵	\$10,920 00 ⁶	716 00	\$5,962 75 ³	\$7,639 96 ⁹	\$17,895 24	\$50,103 92	\$25,591 40	\$130,124 74

¹ Ninth assessment under chapter 512, Acts of 1911 (total assessments, 29).² Fourth assessment under chapter 159, General Acts of 1916 (total assessments, 5).³ Sixth assessment under chapter 259, Acts of 1914 (total assessments, 11).⁴ Fifth assessment under chapter 343, Acts of 1914 (total assessments, 5).⁵ Tenth assessment under chapter 529, Acts of 1907 (total assessments, 20), and

seventh assessment under chapter 458, Acts of 1911 (total assessments, 20).

⁶ Fifth assessment under chapter 300, General Acts of 1915 (total assessments, 18).⁷ Fifth assessment under chapter 308, Special Acts of 1915 (total assessments, 9).⁸ Sixth assessment under chapter 276, General Acts of 1915 (total assessments, 10).⁹ Fifth assessment under chapter 295, General Acts of 1916.

Assessments on Counties and Street Railways for 1920.

	Neponset Bridge.	Newton- Weston Bridge.	Wellington Bridge, Serial Bonds and Interest.	Total.
Middlesex County,	-	\$1,074 00	-	\$1,074 00
Norfolk County,	\$1,560 00	-	-	1,560 00
Plymouth County,	780 00	-	-	780 00
Bay State Street Railway Company, .	4,680 00	-	-	4,680 00
Boston Elevated Railway Company, .	-	-	\$2,104 50	2,104 50
	\$7,020 00 ¹	\$1,074 00 ²	\$2,104 50 ³	\$10,198 50

¹ Fifth assessment under chapter 300, General Acts of 1915 (total assessments, 18).² Fifth assessment under chapter 358, Special Acts of 1915 (total assessments, 9).³ Sixth assessment under chapter 276, General Acts of 1915 (total assessments, 10).

STATEMENT I.

METROPOLITAN WATER DISTRICT.

Total Water Debt, April 1, 1920.

Gross water debt, April 1, 1920: —

Bonds outstanding (sinking fund),	\$41,398,000 00	
Bonds outstanding (serial),	1,328,000 00	
	<hr/>	\$42,726,000 00

a decrease for the year of \$9,000.

Sinking fund, April 1, 1920,	16,178,369 21	
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an increase for the year of \$1,118,638.61.

Net water debt, April 1, 1920,	\$26,547,630 79	
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a decrease for the year of \$1,127,638.61.

Total Water Assessment for 1920.

Sinking fund requirements,	\$248,053 52	
Serial bonds,	44,000 00	
Interest: —		

One year on \$41,398,000,	\$1,393,435 00	
Six months on \$1,337,000,	26,153 75	
Six months on \$1,328,000,	26,033 75	
Interest on advances and temporary loans, estimated, 1920,	40,000 00	
	<hr/>	\$1,485,622 50

Adjustment of interest charges in 1919,	\$5,932 84	
Accrued interest,	313 08	
	<hr/>	6,245 92

1,479,376 58

Maintenance as appropriated by Legislature,	\$815,683 52	
Less balance on hand,	68,830 10	
	<hr/>	746,853 42

Total water assessment for 1920,	\$2,518,283 52	
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METROPOLITAN WATER LOAN.

Sinking Fund.

BONDS ISSUED.	Due Dates.	Sinking Fund Dec. 1, 1919.	Amount of Dec. 1, 1919, Sinking Fund at Maturity of Loan, Accumu- lations reckoned at 4 Per Cent.	Balance to be sunk.	Sinking Fund Re- quirements for 1920.
\$13,000,000	July, 1935	\$6,452,660 44	\$11,921,863 15	\$1,078,136 85	\$53,653 49
4,000,000	Jan., 1938	1,709,742 58	3,487,682 20	512,317 80	19,903 73
4,000,000	July, 1939	1,523,004 44	3,296,915 85	703,084 15	25,339 30
10,000,000	Jan., 1941	3,354,980 29	7,707,209 81	2,292,790 19	71,404 21
3,500,000	Jan., 1942	1,111,079 51	2,655,539 03	844,460 97	24,543 10
2,000,000	Jan., 1943	576,991 79	1,434,754 28	565,245 72	15,361 06
2,000,000	Jan., 1944	533,225 54	1,379,491 98	620,508 02	15,795 47
650,000	Jan., 1945	190,572 98	512,943 94	137,056 06	3,273 29
1,350,000	Jan., 1946	313,548 49	878,038 66	471,961 34	10,590 97
398,000	Jan., 1949	67,316 84	212,292 02	185,707 98	3,483 70
500,000	Jan., 1950	71,422 24	234,335 56	265,661 44	4,705 20
\$41,398,000	—	\$15,904,545 14	\$33,721,069 48	\$7,676,930 52	\$248,053 52

Computations for determining the Assessment for 1920. (See Chapter 488, Acts of 1895, as amended in 1901, 1904 and 1906.)

[The proportion to be paid by each city and town is based as follows: One-third in proportion to their respective valuation for the preceding year, and the remaining two-thirds in proportion to the consumption by the cities and towns, respectively, in the preceding year. The last column shows the total ratio to be paid by each city and town of the whole assessment. To find each city's and town's assessment, multiply the total assessment by the average ratio.]

CITIES AND TOWNS.	Valuation, 1919.	Average Daily Con- sumption (Gallons), 1919.	RATIO OF TOTALS.		Average Ratio, Double Weight to Consump- tion.
			Valuation.	Consump- tion.	
Arlington,	\$20,357,643	1,085,700	.010112	.009003	.009373
Belmont,	13,402,099	564,000	.006657	.004677	.005337
Boston,	1,529,759,278	89,652,400	.759828	.743426	.748893
Chelsea,	36,641,200	3,158,400	.018200	.026190	.023527
Everett,	40,475,700	2,886,700	.020104	.023937	.022659
Lexington,	8,966,762	389,200	.004454	.003227	.003636
Malden,	41,464,840	2,682,800	.020596	.022247	.021697
Melford,	35,178,600	1,688,500	.017473	.014002	.015159
Melrose,	20,234,675	1,057,100	.010050	.008766	.009194
Milton,	18,405,370	401,300	.009142	.003328	.005266
Nahant,	4,131,846	186,900	.002052	.001550	.001717
Newton, ¹	15,730,698	—	.007813	—	.002604
Quincy,	52,558,870	4,550,100	.026106	.037731	.038856
Revere,	24,993,750	1,780,700	.012414	.014766	.013982
Somerville,	87,392,724	6,541,500	.043408	.054244	.050632
Stonham,	7,438,970	602,400	.003695	.004995	.004562
Swampscott,	13,952,642	570,900	.006930	.004734	.005466
Watertown,	25,544,790	2,002,900	.012688	.016609	.015302
Winthrop,	16,665,500	792,000	.008278	.006568	.007138
	\$2,013,295,957	120,593,500	1.000000	1.000000	1.000000

¹ In accordance with the provisions of the act above referred to, but one-fifth of the total valuation and no consumption has been taken, for at present this city has a sufficient supply, and has not made application for water.

METROPOLITAN WATER LOAN.
Division of Assessment for 1920.

CITIES AND TOWNS.	Interest.	Sinking Funds.	Maintenance.	Serial Bonds.	Total Assessment.
Arlington,	\$13,866 20	\$2,325 01	\$7,000 26	\$412 41	\$23,603 88
Belmont,	7,895 43	1,323 86	3,985 96	234 83	13,440 08
Boston,	1,107,894 77	185,765 55	559,313 30	32,951 29	1,885,924 91
Chelsea,	34,805 29	5,835 96	17,571 22	1,035 19	59,247 66
Everett,	33,521 19	5,620 64	16,922 95	996 99	57,061 77
Lexington,	5,379 01	901 92	2,715 56	159 98	9,156 47
Malden,	32,098 03	5,382 02	16,204 48	954 67	54,639 20
Medford,	22,425 87	3,760 24	11,321 55	667 00	38,174 66
Melrose,	13,601 39	2,280 60	6,866 57	404 54	23,153 10
Milton,	7,790 40	1,306 25	3,932 93	231 70	13,261 28
Nahant,	2,540 09	425 91	1,282 35	75 55	4,323 90
Newton,	3,852 30	645 93	1,944 81	114 58	6,557 62
Quincy,	50,085 77	8,398 10	25,285 47	1,489 66	85,259 00
Revere,	20,684 64	3,468 28	10,442 50	615 21	35,210 63
Somerville,	74,903 80	12,559 45	37,814 68	2,227 81	127,505 74
Stoneham,	6,748 92	1,131 62	3,407 15	200 73	11,488 42
Swampscott,	8,086 27	1,355 86	4,082 30	240 50	13,764 93
Watertown,	22,637 42	3,795 71	11,428 35	673 29	38,534 77
Winthrop,	10,559 79	1,770 61	5,331 03	314 07	17,975 50
	\$1,479,376 58	\$248,053 52	\$746,853 42	\$44,000 00	\$2,518,283 52

Comparison of Total Assessments, 1919 and 1920, with Revenue from Water Rates in 1919.

CITIES AND TOWNS.	WATER ASSESSMENTS.		Water Revenue received by Cities and Towns, 1919.
	1919.	1920.	
Arlington,	\$24,320 83	\$23,603 88	\$72,067 36
Belmont,	12,596 72	13,440 08	33,047 11 ¹
Boston,	1,805,104 07	1,885,924 91	3,298,170 83 ²
Chelsea,	58,145 27	59,247 66	134,146 09
Everett,	58,298 82	57,061 77	117,225 81 ²
Lexington,	9,720 54	9,156 47	25,954 10 ³
Malden,	57,579 78	54,639 20	119,677 94 ²
Medford,	41,326 89	38,174 66	86,692 82 ⁴
Melrose,	22,670 68	23,153 10	51,379 22 ¹
Milton,	12,925 78	13,261 28	54,798 67 ³
Nahant,	4,567 76	4,323 90	8,591 43 ²
Newton,	6,210 62	6,557 62	— ⁵
Quincy,	78,083 57	85,259 00	260,414 33
Revere,	34,950 55	35,210 63	83,557 68 ¹
Somerville,	128,082 90	127,505 74	248,544 27 ²
Stoneham,	10,437 14	11,488 42	38,062 31 ³
Swampscott,	13,267 02	13,764 93	43,100 83
Watertown,	40,517 66	38,534 77	109,429 95 ¹
Winthrop,	18,639 15	17,975 50	57,586 10 ⁶
	\$2,437,445 75	\$2,518,283 52	\$4,842,446 85

¹ No money received for hydrant rentals or water used for street watering.

² No money received for hydrant rentals or water used for street watering or other municipal purposes.

³ No money received for street watering or other municipal purposes.

⁴ No money received for hydrant rentals.

⁵ Not taking water from the district.

⁶ No money received for street watering.

Net Water Debt of Cities of the Original Metropolitan Water District.

CITIES.	Jan. 1, 1919.	Jan. 1, 1920.	Decrease.
Boston,	\$352,000 00	\$336,000 00	\$16,000 00
Somerville,	6,000 00	2,000 00	4,000 00
Chelsea,	47,051 00	27,444 00	19,607 00
Everett,	23,686 33	15,833 25	7,853 08
Malden,	14,935 08	9,087 39	5,847 69
Medford, ¹	—6,064 35	—6,769 88	705 53
Melrose,	89,811 07	90,113 86	302 79 ²
Totals,	\$527,419 13	\$473,708 62	\$53,710 51

¹ Amount in sinking fund greater than outstanding debt.

² Increase.

STATEMENT II.

METROPOLITAN PARKS DISTRICT.

Gross parks debt, April 1, 1920: —

Bonds outstanding (sinking fund),	\$9,485,000 00
Bonds outstanding (serial),	205,000 00
	<hr/>
	\$9,690,000 00

a decrease for the year of \$24,750.

Sinking fund, April 1, 1920, 3,958,284 24

an increase for the year of \$269,071.17.

Net parks debt, April 1, 1920, \$5,731,715 76

a decrease for the year of \$293,821.17.

BOULEVARDS.

Gross parks, series two (boulevards), debt, April 1, 1920: —

Bonds outstanding (sinking fund) (one-half),	\$2,567,500 00
Bonds outstanding (serial) (one-half),	602,500 00
Bonds outstanding (serial), 78.75 per cent (chapter 276, General Acts of 1915),	45,280 25
Bonds outstanding (serial), 78.75 per cent (chapter 300, General Acts of 1915),	212,626 00
	<hr/>
	\$3,427,906 25

an increase for the year of \$79,193.75.

Sinking fund, April 1, 1920, 1,006,040 85

an increase for the year of \$63,872.07.

Net parks, series two (boulevards), debt, April 1, 1920, . . . \$2,421,865 40

an increase for the year of \$15,321.68.

METROPOLITAN PARKS LOAN.

Total parks assessment for 1920 is made up as follows: —

Parks sinking fund,	\$53,384 32
Parks, series two, sinking fund,	13,559 00
Nantasket sinking fund,	3,444 57
Parks, serial bonds,	20,250 00
Parks, series two, serial bonds,	32,693 75
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Amount carried forward, \$123,331 64

<i>Amount brought forward,</i>		\$123,331 64	
Parks interest:—			
One year on \$8,785,000,	\$301,225 00		
Six months on \$213,750,	4,170 02		
Six months on \$192,000,	3,740 00		
Interest on advances and tempo- rary loans, estimated, 1920,	20,000 00		
		\$329,135 02	
Adjustment of interest charges in 1919,		3,551 46	
			325,583 56
Parks, series two, interest:—			
One year on \$2,567,500,	\$87,737 50		
Six months on \$574,787.50,	11,513 25		
Six months on \$672,093.75,	13,613 13		
Interest on advances and tempo- rary loans, estimated, 1920,	1,000 00		
		\$113,863 88	
Adjustment of interest charges in 1919,	\$2,187 36		
Accrued interest,	1,151 05		
		3,338 41	
			110,525 47
Nantasket interest:—			
One year on \$700,000,			21,000 00
Parks maintenance as appropriated by Legislature,	\$745,477 39		
Less balance on hand,	96,327 05		
			649,150 34
Boulevards maintenance (one-half),	\$264,177 50		
Less balance on hand (one-half),	20,481 86		
			243,695 64
Nantasket maintenance,	\$70,683 28		
Less balance on hand,	2,671 94		
			68,011 34
Wellington Bridge maintenance (one-quarter),	\$4,216 75		
Less balance on hand (one-quarter),	396 77		
			3,819 98
Total parks assessment for 1920,			\$1,545,117 97

METROPOLITAN PARKS, INCLUDING BOULEVARDS, WELLINGTON BRIDGE
AND NANTASKET.

Total Assessments and Grand Total.

CITIES AND TOWNS.	Total Sinking Fund.	Total Interest.	Total Mainte- nance.	Total Serial Bonds.	Grand Total.
Arlington,	\$535 18	\$3,475 54	\$8,554 92	\$402 59	\$12,968 23
Belmont,	348 85	2,265 50	5,296 28	262 42	8,173 05
Boston,	42,151 03	273,736 79	531,076 75	31,708 44	878,673 01
Braintree,	254 01	1,649 58	4,400 54	191 09	6,495 22
Brookline,	2,543 31	16,516 73	30,585 58	1,913 22	51,558 84
Cambridge,	3,832 96	24,891 89	56,530 37	2,883 36	88,138 58
Canton,	176 67	1,147 28	2,781 23	132 89	4,238 07
Chelsea,	1,013 90	6,584 44	17,753 40	762 71	26,114 45
Cohasset,	8 06	49 14	159 13	—	216 33
Dedham,	371 34	2,411 53	5,509 24	279 34	8,571 45
Dover,	77 28	501 91	874 08	58 14	1,511 41
Everett,	1,085 22	7,047 61	17,796 37	816 37	26,745 57
Hingham,	188 12	1,221 68	2,818 01	141 52	4,369 33
Hull,	294 40	1,911 86	3,026 85	221 47	5,454 58
Lynn,	2,718 60	17,655 15	44,313 82	2,045 09	66,732 66
Malden,	1,117 64	7,258 18	19,866 49	840 75	29,083 06
Medford,	908 88	5,902 40	15,979 07	683 70	23,474 05
Melrose,	506 61	3,290 02	8,204 05	381 10	12,381 78
Milton,	529 54	3,438 90	6,669 05	398 35	11,035 84
Nahant,	117 41	762 51	1,328 09	88 32	2,296 33
Needham,	277 93	1,804 95	3,912 92	209 08	6,204 88
Newton,	2,085 13	13,541 29	28,061 07	1,568 57	45,256 06
Quincy,	1,326 74	8,616 18	21,525 35	998 06	32,466 33
Revere,	642 57	4,172 96	11,538 88	483 37	16,837 78
Saugus,	203 91	1,324 21	4,003 05	153 39	5,684 56
Somerville,	2,255 72	14,649 08	38,907 90	1,696 89	57,509 59
Stoneham,	173 76	1,128 45	3,135 88	130 72	4,568 81
Swampscott,	377 93	2,454 37	5,037 42	284 30	8,154 02
Wakefield,	356 75	2,316 77	5,817 85	268 36	8,759 73
Waltham,	856 41	5,561 69	13,896 72	644 24	20,959 06
Watertown,	743 62	4,829 17	11,001 97	559 39	17,134 15
Wellesley,	416 43	2,704 41	5,016 56	313 27	8,450 67
Weston,	138 61	900 19	1,711 38	104 27	2,854 45
Westwood,	69 25	449 71	898 04	52 09	1,469 09
Weymouth,	358 09	2,325 51	6,231 69	269 37	9,184 66
Winchester,	463 28	3,008 63	6,284 60	348 51	10,105 02
Winthrop,	429 07	2,786 48	6,953 98	322 77	10,492 30
Woburn,	433 68	2,816 34	7,218 72	326 23	10,794 97
	\$70,387 89	\$457,109 03	\$964,677 30	\$52,943 75	\$1,545,117 97

METROPOLITAN PARKS (EXCEPTING NANTASKET) AND BOULEVARDS.

Proportion of Sinking Fund, Serial Bonds, Interest and Maintenance (excepting Parks Maintenance) Requirements as determined by Metropolitan District Commission.

CITIES AND TOWNS.	Valuation (Chapter 343, General Acts of 1919).	Per Cent.
Arlington,	\$20,954,167	.007604129949
Belmont,	13,658,727	.004956662560
Boston,	1,650,368,499	.598907917960
Braintree,	9,945,392	.003609117612
Brookline,	99,579,927	.036136903235
Cambridge,	150,074,048	.054460888997
Canton,	6,916,966	.002510121654
Chelsea,	39,697,831	.014406082839
Dedham,	14,539,216	.005276186251
Dover,	3,026,036	.001098128643
Everett,	42,490,326	.015419460983
Hingham,	7,365,555	.002672911663
Hull,	11,526,682	.004182957395
Lynn,	106,443,504	.038627650370
Malden,	43,759,862	.015880167282
Medford,	35,585,712	.012913821789
Melrose,	19,835,595	.007198207497
Milton,	20,733,252	.007523961343
Nahant,	4,597,237	.001668307194
Needham,	10,882,037	.003949019947
Newton,	81,640,920	.029626955099
Quincy,	51,947,249	.018851316395
Revere,	25,158,868	.009129988401
Saugus,	7,983,680	.002897225177
Somerville,	88,319,796	.032050675452
Stoncham,	6,803,432	.002468920909
Swampscott,	14,797,505	.005369917637
Wakefield,	13,967,851	.005068841635
Waltham,	33,531,618	.012168404532
Watertown,	29,115,299	.010565751295
Wellesley,	16,305,003	.005916978787
Weston,	5,427,288	.001969527265
Westwood,	2,714,339	.000983927163
Weymouth,	14,020,601	.005087984264
Winchester,	18,139,162	.006582583074
Winthrop,	16,799,768	.006096525764
Woburn,	16,979,838	.006161871988
	\$2,755,629,788	1.000000000000

METROPOLITAN PARKS (EXCEPTING NANTASKET).

Proportion of Maintenance Requirements as determined by Metropolitan District Commission.

CITIES AND TOWNS.	Valuation (Chapter 343, Gen. Acts, 1919).	Per Cent.	Popula- tion.	Per Cent.	Average Per Cent.
Arlington,	\$20,954,167	.007604129949	18,665	.011364729578	.0094844297635
Belmont,	13,658,727	.004956662560	10,749	.006544842124	.0057507523420
Boston,	1,650,368,499	.598907917960	747,923	.455394730273	.5271513241165
Braintree,	9,945,392	.003609117612	10,580	.006441941545	.0050255295785
Brookline,	99,579,927	.036136903235	37,748	.022983970647	.0295604369410
Cambridge,	150,074,048	.054460888997	109,694	.066790390912	.0606256399545
Canton,	6,916,966	.002510121654	5,945	.003619786624	.0030649541390
Chelsea,	39,697,831	.014406082839	43,184	.026293837777	.0203499603080
Dedham,	14,589,216	.005276186251	10,792	.006571023928	.0059236050895
Dover,	3,026,036	.001098128643	867	.000527898234	.0008130134385
Everett,	42,490,326	.015419460983	40,120	.024428232022	.0199238465025
Hingham,	7,365,555	.002672911663	5,604	.003412158830	.0030425352465
Hull,	11,526,682	.004182957395	1,771	.001078324998	.0026306411965
Lynn,	106,443,504	.038627650370	99,148	.060369151259	.0494984008145
Malden,	43,759,862	.015880167282	49,103	.029897793544	.0228889804130
Medford,	35,585,712	.012913821789	39,038	.023769424767	.0183416232780
Melrose,	19,835,595	.007198207497	18,204	.011084036284	.0091411218905
Milton,	20,733,252	.007523961343	9,382	.005712504308	.0066182328255
Nahant,	4,597,237	.001668307194	1,318	.000802502737	.0012354049655
Needham,	10,882,037	.003949019947	7,012	.004269460691	.0041092403190
Newton,	81,640,920	.029626955099	46,054	.028041320975	.0288341380370
Quincy,	51,947,249	.018851316395	47,876	.029150698811	.0240010076030
Revere,	25,158,868	.009129988401	28,823	.017549724117	.0133398562590
Saugus,	7,983,680	.002897225177	10,874	.006620952020	.0047590885985
Somerville,	88,319,796	.032050675452	93,091	.056681170169	.0443659228105
Stoneham,	6,803,432	.002468920909	7,873	.004793705651	.0036313132800
Swampscott,	14,797,505	.005369917637	8,101	.004932530100	.0051512238635
Wakefield,	13,967,851	.005068841635	13,025	.007930651099	.0064997463670
Waltham,	33,531,618	.012168404532	30,915	.018823499326	.0154959519290
Watertown,	29,115,299	.010565751295	21,457	.013064720202	.0118152357485
Wellesley,	16,305,003	.005916978787	6,224	.003789663911	.0048533213490
Weston,	5,427,288	.001969527265	2,282	.001389462250	.0016794947575
Westwood,	2,711,339	.000983927163	1,358	.000826857903	.0009053925330
Weymouth,	14,020,601	.005087984264	15,057	.009167893558	.0071279389110
Winchester,	18,139,162	.006582583074	10,485	.006384098025	.0064833405495
Winthrop,	16,799,768	.006096525764	15,446	.009404747553	.0077506366585
Woburn,	16,979,838	.006161871988	16,574	.010091563248	.0081267176180
	\$2,755,629,788	1.000000000000	1,642,362	1.000000000000	1.000000000000

METROPOLITAN PARKS — NANTASKET.

Proportion of Sinking Fund, Interest and Maintenance Requirements as determined by Metropolitan District Commission.

CITIES AND TOWNS.	Valuation (Chapter 343, General Acts of 1919).	Per Cent.
Arlington,	\$20,954,167	.007586337732
Belmont,	13,658,727	.004945064913
Boston,	1,650,368,499	.597506587396
Braintree,	9,945,392	.003600672964
Brookline,	99,579,927	.036052349758
Cambridge,	150,074,048	.054333460879
Canton,	6,916,966	.002504248446
Chelsea,	39,697,831	.014372375347
Cohasset,	6,462,771	.002339809714
Dedham,	14,539,216	.005263840979
Dover,	3,026,036	.001095559231
Everett,	42,490,326	.015383382379
Hingham,	7,365,555	.002666657559
Hull,	11,526,682	.004173170071
Lynn,	106,443,504	.038537269018
Malden,	43,759,862	.015843010712
Medford,	35,585,712	.012883605904
Melrose,	19,835,595	.007181365062
Milton,	20,733,252	.007506356705
Nahant,	4,597,237	.001664403673
Needham,	10,882,037	.003939779992
Newton,	81,640,920	.029557633662
Quincy,	51,947,249	.018807207901
Revere,	25,158,868	.009108625965
Saugus,	7,983,680	.002890446221
Somerville,	88,319,796	.031975682970
Stonham,	6,803,432	.002463144103
Swampscott,	14,797,505	.005357353052
Wakefield,	13,967,851	.005056981511
Waltham,	33,531,618	.012139932781
Watertown,	29,115,299	.010541029447
Wellesley,	16,305,003	.005903134182
Weston,	5,427,288	.001964918946
Westwood,	2,711,339	.000981624960
Weymouth,	14,020,601	.005076079349
Winchester,	18,139,162	.006567181082
Winthrop,	16,799,768	.006082261054
Woburn,	16,979,838	.006147454380
	\$2,762,092,559	1.000000000000

METROPOLITAN PARKS LOAN.

Sinking Fund.

BONDS ISSUED.	Due Dates.	Sinking Fund Dec. 1, 1919.	Amount of Dec. 1, 1919, Sinking Fund at Maturity of Loan, Accumulations reckoned at 4 Per Cent.	Balance to be provided for.	Sinking Fund Re- quirements for 1920.
\$125,000	Jan., 1928	\$63,841 15	\$87,640 21	\$37,359 79	\$4,048 80
1,300,000	Jan., 1934	657,974 08	1,145,548 78	154,451 22	8,420 54
2,000,000	Jan., 1936	926,075 48	1,745,226 81	254,773 19	11,636 36
1,400,000	Jan., 1937	620,527 98	1,216,654 32	183,345 68	7,710 36
1,000,000	July, 1938	420,099 02	874,093 75	125,906 25	4,891 50
505,000	July, 1939	202,048 08	437,382 51	67,617 49	2,434 06
650,000	Jan., 1941	277,405 63	637,268 54	12,731 46	396 49
125,000	Jan., 1943	37,288 30	92,721 50	32,278 50	877 19
340,000	July, 1943	104,575 59	265,239 61	74,760 39	2,031 68
300,000	Jan., 1944	80,720 76	208,830 28	91,169 72	2,320 78
370,000	Jan., 1945	88,978 48	239,493 40	130,506 60	3,116 87
300,000	Jan., 1946	70,419 73	197,198 35	102,801 65	2,306 90
300,000	Jan., 1947	60,953 14	177,584 62	122,415 38	2,584 62
70,000	Jan., 1949	11,916 40	37,579 84	32,420 16	608 17
\$8,785,000	—	\$3,622,823 82	\$7,362,462 52	\$1,422,537 48	\$53,384 32

Nantasket.

\$600,000	July, 1939	\$241,544 61	\$522,882 42	\$77,117 58	\$2,776 04
100,000	Jan., 1941	34,185 94	78,533 46	21,466 54	668 53
\$700,000	—	\$275,730 55	\$601,415 88	\$98,584 12	\$3,444 57

METROPOLITAN PARKS LOAN, SERIES TWO.

Sinking Fund.

BONDS ISSUED.	Due Dates.	Sinking Fund Dec. 1, 1919.	Amount of Dec. 1, 1919, Sinking Fund at Maturity of Loan, Accumulations reckoned at 4 Per Cent.	Balance to be provided for.	Sinking Fund Re- quirements for 1920.
\$250,000	Jan., 1934	\$133,191 38	\$231,889 41	\$18,110 59	\$987 00
300,000	Jan., 1936	146,538 75	276,158 21	23,841 79	1,089 00
500,000	Jan., 1937	233,999 15	458,796 51	41,203 49	1,733 00
50,000	July, 1938	22,209 77	46,211 53	3,788 47	147 00
250,000	July, 1939	106,497 41	230,539 70	19,460 30	701 00
225,000	Jan., 1940	79,750 48	176,092 22	48,907 78	1,636 00
162,500	July, 1940	63,445 38	142,891 71	19,608 29	656 00
55,000	Jan., 1943	17,084 94	42,483 60	12,516 40	340 00
150,000	July, 1943	43,105 30	109,329 84	40,670 16	1,105 00
150,000	Jan., 1944	41,695 99	107,870 45	42,129 55	1,072 00
150,000	Jan., 1945	36,890 15	99,293 08	50,706 92	1,211 00
150,000	Jan., 1946	31,526 63	88,284 90	61,715 10	1,385 00
150,000	Jan., 1947	30,933 33	90,123 06	59,876 94	1,264 00
25,000	Jan., 1949	3,991 20	12,586 74	12,413 26	233 00
\$2,567,500	—	\$990,859 86	\$2,112,550 96	\$454,949 04	\$13,559 00

METROPOLITAN PARKS LOAN, INCLUDING BOULEVARDS AND NANTASKET.

Sinking Fund Requirements.

CITIES AND TOWNS.	Parks.	Boulevards.	Nantasket.	Total.
Arlington,	\$405 94	\$103 11	\$26 13	\$535 18
Belmont,	264 61	67 21	17 03	348 85
Boston,	31,972 29	8,120 59	2,058 15	42,151 03
Braintree,	192 67	48 94	12 40	254 01
Brookline,	1,929 14	489 98	124 19	2,543 31
Cambridge,	2,907 36	738 44	187 16	3,832 96
Canton,	134 00	34 04	8 63	176 67
Chelsea,	769 06	195 33	49 51	1,013 90
Cohasset,	—	—	8 06	8 06
Dedham,	281 67	71 54	18 13	371 34
Dover,	58 62	14 89	3 77	77 28
Everett,	823 16	209 07	52 99	1,085 22
Hingham,	142 69	36 24	9 19	188 12
Hull,	223 30	56 72	14 38	294 40
Lynn,	2,062 11	523 75	132 74	2,718 60
Malden,	847 75	215 32	54 57	1,117 64
Medford,	689 40	175 10	44 38	908 88
Melrose,	384 27	97 60	24 74	506 61
Milton,	401 66	102 02	25 86	529 54
Nahant,	89 06	22 62	5 73	117 41
Needham,	210 82	53 54	13 57	277 93
Newton,	1,581 61	401 71	101 81	2,085 13
Quincy,	1,006 36	255 60	64 78	1,326 74
Revere,	487 40	123 79	31 38	642 57
Saugus,	154 67	39 28	9 96	203 91
Somerville,	1,711 00	434 58	110 14	2,255 72
Stoneham,	131 80	33 48	8 48	173 76
Swampscott,	286 67	72 81	18 45	377 93
Wakefield,	270 60	68 73	17 42	356 75
Waltham,	649 60	164 99	41 82	856 41
Watertown,	564 05	143 26	36 31	743 62
Wellesley,	315 87	80 23	20 33	416 43
Weston,	105 14	26 70	6 77	138 61
Westwood,	52 53	13 34	3 38	69 25
Weymouth,	271 62	68 99	17 48	358 09
Winchester,	351 41	89 25	22 62	463 28
Winthrop,	325 46	82 66	20 95	429 07
Woburn,	328 95	83 55	21 18	433 68
	\$53,384 32	\$13,559 00	\$3,444 57	\$70,387 89

METROPOLITAN PARKS LOAN, INCLUDING BOULEVARDS AND NANTASKET.

Interest Requirements.

CITIES AND TOWNS.	Parks.	Boulevards.	Nantasket.	Total.
Arlington,	\$2,475 78	\$840 45	\$159 31	\$3,475 54
Belmont,	1,613 81	547 84	103 85	2,265 50
Boston,	194,994 57	66,194 58	12,547 64	273,736 79
Braintree,	1,175 07	398 90	75 61	1,649 58
Brookline,	11,765 58	3,994 05	757 10	16,516 73
Cambridge,	17,731 57	6,019 32	1,141 00	24,891 89
Canton,	817 26	277 43	52 59	1,147 28
Chelsea,	4,690 38	1,592 24	301 82	6,584 44
Cohasset,	—	—	49 14	49 14
Dedham,	1,717 84	583 15	110 54	2,411 53
Dover,	357 53	121 37	23 01	501 91
Everett,	5,020 32	1,704 24	323 05	7,047 61
Hingham,	870 26	295 42	56 00	1,221 68
Hull,	1,361 90	462 32	87 64	1,911 86
Lynn,	12,576 53	4,269 34	809 28	17,655 15
Malden,	5,170 32	1,755 16	332 70	7,258 18
Medford,	4,204 53	1,427 31	270 56	5,902 40
Melrose,	2,343 62	795 59	150 81	3,290 02
Milton,	2,449 68	831 59	157 63	3,438 90
Nahant,	543 17	184 39	34 95	762 51
Needham,	1,285 74	436 47	82 74	1,804 95
Newton,	9,646 05	3,274 53	620 71	13,541 29
Quincy,	6,137 68	2,083 55	394 95	8,616 18
Revere,	2,972 58	1,009 10	191 28	4,172 96
Saugus,	943 29	320 22	60 70	1,324 21
Somerville,	10,435 17	3,542 42	671 49	14,649 08
Stoneham,	803 84	272 88	51 73	1,128 45
Swampscott,	1,748 36	593 51	112 50	2,454 37
Wakefield,	1,650 33	560 24	106 20	2,316 77
Waltham,	3,961 83	1,344 92	254 94	5,561 69
Watertown,	3,440 03	1,167 78	221 36	4,829 17
Wellesley,	1,926 47	653 98	123 96	2,704 41
Weston,	641 25	217 68	41 26	900 19
Westwood,	320 35	108 75	20 61	449 71
Weymouth,	1,656 56	562 35	106 60	2,325 51
Winchester,	2,143 18	727 54	137 91	3,008 63
Winthrop,	1,984 93	673 82	127 73	2,786 48
Woburn,	2,006 20	681 04	129 10	2,816 34
	\$325,583 56	\$110,525 47	\$21,000 00	\$457,109 03

METROPOLITAN PARKS LOAN, INCLUDING BOULEVARDS, WELLINGTON
BRIDGE AND NANTASKET.

Maintenance Requirements.

CITIES AND TOWNS.	Parks.	Wellington Bridge.	Nantasket.	Boulevards.	Total.
Arlington,	\$6,156 82	\$29 05	\$515 96	\$1,853 09	\$8,554 92
Belmont,	3,733 10	18 94	336 32	1,207 92	5,296 28
Boston,	342,200 46	2,287 82	40,637 22	145,951 25	531,076 75
Braintree,	3,262 33	13 79	244 89	879 53	4,400 54
Brookline,	19,189 17	138 04	2,451 97	8,506 40	30,585 58
Cambridge,	39,355 16	208 04	3,695 29	13,271 88	56,530 37
Canton,	1,989 62	9 59	170 32	611 70	2,781 23
Chelsea,	13,210 18	55 03	977 49	3,510 70	17,753 40
Cohasset,	—	—	159 13	—	159 13
Dedham,	3,845 31	20 15	358 00	1,285 78	5,509 24
Dover,	527 77	4 19	74 51	267 61	874 08
Everett,	12,933 57	58 90	1,046 25	3,757 65	17,796 37
Hingham,	1,975 06	10 21	181 36	651 38	2,818 01
Hull,	1,707 68	15 98	283 82	1,019 37	3,026 85
Lynn,	32,131 90	147 56	2,620 97	9,413 39	44,313 82
Malden,	14,858 39	60 66	1,077 51	3,869 93	19,866 49
Medford,	11,906 47	49 33	876 23	3,147 04	15,979 07
Melrose,	5,933 96	27 50	488 42	1,754 17	8,204 05
Milton,	4,296 23	28 74	510 52	1,833 56	6,669 05
Nahant,	801 96	6 37	113 20	406 56	1,328 09
Needham,	2,667 52	15 09	267 95	962 36	3,912 92
Newton,	18,717 69	113 17	2,010 25	7,219 96	28,061 07
Quincy,	15,580 26	72 01	1,279 10	4,593 98	21,525 35
Revere,	8,659 57	34 88	619 49	2,224 94	11,538 88
Saugus,	3,089 36	11 07	196 58	706 04	4,003 05
Somerville,	28,800 15	122 43	2,174 71	7,810 61	38,907 90
Stoneham,	2,357 27	9 43	167 52	601 66	3,135 88
Swampscott,	3,343 92	20 51	364 36	1,308 63	5,037 42
Wakefield,	4,219 31	19 36	343 93	1,235 25	5,817 85
Waltham,	10,059 20	46 48	825 65	2,965 39	13,896 72
Watertown,	7,669 87	40 36	716 91	2,574 83	11,001 97
Wellesley,	3,150 54	22 60	401 48	1,441 94	5,016 56
Weston,	1,090 25	7 52	133 64	479 97	1,711 38
Westwood,	587 74	3 76	66 76	239 78	898 04
Weymouth,	4,627 10	19 44	345 23	1,239 92	6,231 69
Winchester,	4,208 66	25 15	446 64	1,604 15	6,284 60
Winthrop,	5,031 33	23 29	413 66	1,485 70	6,953 98
Woburn,	5,275 46	23 54	418 10	1,501 62	7,218 72
	\$649,150 34	\$3,819 98	\$68,011 34	\$243,695 64	\$964,677 30

METROPOLITAN PARKS LOAN, INCLUDING BOULEVARDS.

Serial Bond Requirements.

CITIES AND TOWNS.	Parks.	Boulevards.	Total.
Arlington,	\$153 98	\$248 61	\$402 59
Belmont,	100 37	162 05	262 42
Boston,	12,127 89	19,580 55	31,708 44
Braintree,	73 09	118 00	191 09
Brookline,	731 77	1,181 45	1,913 22
Cambridge,	1,102 83	1,780 53	2,883 36
Canton,	50 83	82 06	132 89
Chelsea,	291 72	470 99	762 71
Dedham,	106 84	172 50	279 34
Dover,	22 24	35 90	58 14
Everett,	312 25	504 12	816 37
Hingham,	54 13	87 39	141 52
Hull,	84 71	136 76	221 47
Lynn,	782 21	1,262 88	2,045 09
Malden,	321 57	519 18	840 75
Medford,	261 50	422 20	683 70
Melrose,	145 76	235 34	381 10
Milton,	152 36	245 99	398 35
Nahant,	33 78	54 54	88 32
Needham,	79 97	129 11	209 08
Newton,	599 95	968 62	1,568 57
Quincy,	381 74	616 32	998 06
Revere,	184 88	298 49	483 37
Saugus,	58 67	94 72	153 39
Somerville,	649 03	1,047 86	1,696 89
Stoneham,	50 00	80 72	130 72
Swampscott,	108 74	175 56	284 30
Wakefield,	102 64	165 72	268 36
Waltham,	246 41	397 83	644 24
Watertown,	213 96	345 43	559 39
Wellesley,	119 82	193 45	313 27
Weston,	39 88	64 39	104 27
Westwood,	19 92	32 17	52 09
Weymouth,	103 03	166 34	269 37
Winchester,	133 30	215 21	348 51
Winthrop,	123 45	199 32	322 77
Woburn,	124 78	201 45	326 23
	\$20,250 00	\$32,693 75	\$52,943 75

NEPONSET BRIDGE.

Special Assessment.

[Chapter 300, General Acts of 1915.]

Bonds issued, $57\frac{1}{2}$ per cent,	.	.	.	.	\$201,250 00	
Previously assessed,	.	.	.	.	46,000 00	
Outstanding,	.	.	.	.	\$155,250 00	
Serial bonds due Jan. 1, 1921,	.	.	.	.	.	\$11,500 00
Interest: —						
One year on \$155,250,	.	.	.	.	\$6,210 00	
Six months on \$11,500,	.	.	.	.	230 00	
						6,440 00
						\$17,940 00

Assessment.

	Per Cent.	Serial Bonds.	Interest.	Total.
City of Boston,	20	\$4,000 00	\$2,240 00	\$6,240 00
City of Quincy,	15	3,000 00	1,680 00	4,680 00
County of Norfolk,	5	1,000 00	560 00	1,560 00
County of Plymouth,	$2\frac{1}{2}$	500 00	280 00	780 00
Bay State Street Railway Company, .	15	3,000 00	1,680 00	4,680 00
	$57\frac{1}{2}$	\$11,500 00	\$6,440 00	\$17,940 00

NEWTON-WESTON BRIDGE.

Special Assessment.

[Chapter 368, Special Acts of 1915.]

Bonds issued, 50 per cent,	\$25,000 00	
Previously assessed,	12,000 00	
Outstanding,	\$13,000 00	
Serial bonds due Jan. 1, 1921,		\$3,000 00
Interest: —		
One year on \$13,000,	\$520 00	
Six months on \$3,000,	60 00	
		580 00
		\$3,580 00

Assessment.

	Per Cent.	Serial Bonds.	Interest.	Total.
City of Newton,	25	\$1,500 00	\$290 00	\$1,790 00
Town of Weston,	10	600 00	116 00	716 00
County of Middlesex,	15	900 00	174 00	1,074 00
	50	\$3,000 00	\$580 00	\$3,580 00

WELLINGTON BRIDGE.

*Special Assessment.**Reconstruction.*

[Chapter 276, General Acts of 1915.]

Bonds issued, $57\frac{1}{2}$ per cent,	\$66,125 00	
Previously assessed,	33,062 50	
Outstanding,	\$33,062 50	
Serial bonds due Jan. 1, 1921,		\$6,612 50
Interest:—		
One year on \$33,062.50,	\$1,322 50	
Six months on \$6,612.50,	132 25	
		1,454 75
		\$8,067 25

Assessment.

[Chapter 276, General Acts of 1915.]

	Per Cent.	Serial Bonds.	Interest.	Total.
Malden,	13	\$1,495 00	\$328 90	\$1,823 90
Medford,	16	1,840 00	404 80	2,244 80
Somerville,	11	1,265 00	278 30	1,543 30
Stoneham,	$2\frac{1}{2}$	287 50	63 25	350 75
Boston Elevated Railway Company, . .	15	1,725 00	379 50	2,104 50
	$57\frac{1}{2}$	\$6,612 50	\$1,454 75	\$8,067 25

Maintenance.

[Chapter 295, General Acts of 1916.]

CITIES AND TOWNS.	Per Cent.	Amount.
Malden,	15.2941	\$2,336 93
Medford,	18.8235	2,876 22
Somerville,	12.9412	1,977 40
Stoneham,	2.9412	449 41
	50.0000	\$7,639 96

ALEWIFE BROOK.

[Chapter 529 of the Acts of 1906, as amended by Chapter 529 of the Acts of 1907 and Chapter 458 of the Acts of 1911.]¹

CITIES AND TOWNS.	Assessment.	Interest.	Total.	Proportion of Total (Per Cent).
Arlington,	\$1,636 79	\$644 52	\$2,281 31	24
Belmont,	1,159 39	456 54	1,615 93	17
Cambridge,	3,205 33	1,262 20	4,467 53	47
Somerville,	818 39	322 26	1,140 65	12
	\$6,819 95	\$2,685 52	\$9,505 47	100

¹ This table includes the tenth assessment and interest under chapters 529 of the Acts of 1906 and 1907, and the seventh assessment under chapter 458 of the Acts of 1911.

STATEMENT III.

METROPOLITAN SEWERAGE DISTRICT.

Debt, North System.

Gross sewerage, north system, debt, April 1, 1920: —

Bonds outstanding (sinking fund),	\$6,563,000 00	
Bonds outstanding (serial),	781,000 00	
	<hr/>	\$7,344,000 00

a decrease for the year of \$26,500.

Sinking fund April 1, 1920, 2,991,446 42

an increase for the year of \$269,748.56.

Net sewerage, north system, debt, April 1, 1920, \$4,352,553 58

a decrease for the year of \$296,248.56.

Assessments, North System.

Sinking fund requirements,	\$140,135 69
Serial bonds,	24,000 00

Interest: —

One year on \$7,299,000, \$231,895 00

Four months on \$14,000, 186 67

Interest on advances and temporary loans, estimated, 1920, 3,000 00

\$235,081 67

Adjustment of interest charges in 1919, 255 65

234,826 02

Maintenance as appropriated by Legislature, \$292,576 56

Less balance on hand, 44,219 37

248,357 19

Total north metropolitan sewerage assessment, \$647,318 90

NORTH METROPOLITAN SEWERAGE DISTRICT.

Everett and Malden, Special Assessment (Chapter 512, Acts of 1911).

Bonds issued,	\$62,000 00
Previously assessed,	20,000 00

Outstanding, \$42,000 00

Assessment for 1920 is made up as follows: —

Serial bonds due Jan. 1, 1921, 2,000 00

Interest: —

One year on \$42,000, \$1,470 00

Four months on \$2,000, 23 34

1,493 34

\$3,493 34

Everett and Malden one-half each.

City of Revere, Special Assessment (Chapter 259, Acts of 1914).

Bonds issued,	\$5,500 00	
Previously assessed,	2,500 00	
	<hr/>	
Outstanding,	\$3,000 00	
Assessment for 1920 is made up as follows: —		
Serial bond due Jan. 1, 1921,	\$500 00	
Interest: —		
One year on \$3,000,	\$120 00	
Four months on \$500,	6 67	
	<hr/>	
	126 67	
	<hr/>	
		\$626 67

METROPOLITAN SEWERAGE DISTRICT.

Debt, South System.

Gross sewerage, south system, debt, April 1, 1920: —	
Bonds outstanding (sinking fund),	\$8,877,912 00
Bonds outstanding (serial),	882,000 00
	<hr/>
	\$9,759,912 00

an increase for the year of \$204,000.

Sinking fund April 1, 1920,	1,776,159 95
	<hr/>

an increase for the year of \$178,133.70.

Net sewerage, south system, debt, April 1, 1920,	\$7,983,752 05
--	----------------

an increase for the year of \$25,866.30.

Assessments, South System.

Sinking fund requirements,	\$115,396 83	
Serial bonds,	27,000 00	
Interest: —		
One year on \$9,534,912,	\$328,107 36	
Six months on \$225,000,	5,062 50	
Interest on advances and temporary loans, estimated, 1920,	5,000 00	
	<hr/>	
	\$338,169 86	
Adjustment of interest charges		
in 1919,	\$39 79	
Accrued interest,	506 26	
	<hr/>	
	546 05	
	<hr/>	
		337,623 81
Maintenance as appropriated by Legislature,	\$182,603 02	
Less balance on hand,	15,341 94	
	<hr/>	
		167,261 08
	<hr/>	
Total south metropolitan sewerage assessment,		\$647,281 72

METROPOLITAN SEWERAGE LOAN.

North System — Assessment.

CITIES AND TOWNS.	Sinking Fund.	Serial Bonds.	Interest.	Maintenance.	Total.
Arlington,	\$4,456 31	\$763 20	\$7,467 47	\$6,258 60	\$18,945 58
Belmont,	2,900 81	496 80	4,860 90	3,402 49	11,661 00
Boston,	19,745 12	3,381 60	33,086 99	44,331 76	100,545 47
Cambridge,	31,866 85	5,457 60	53,399 44	45,821 90	136,545 79
Chelsea,	8,436 17	1,444 80	14,136 53	18,279 09	42,296 59
Everett,	9,024 74	1,545 60	15,122 80	15,870 02	41,563 16
Lexington,	1,261 22	216 00	2,113 43	1,663 99	5,254 64
Malden,	9,291 00	1,591 20	15,568 97	20,588 81	47,039 98
Medford,	7,553 31	1,293 60	12,657 12	12,840 07	34,344 10
Melrose,	4,218 08	722 40	7,068 26	7,103 02	19,111 76
Reading, ¹	1,849 79	316 80	3,099 70	—	5,266 29
Revere,	5,339 17	914 40	8,946 87	10,604 85	25,805 29
Somerville,	18,750 16	3,211 20	31,419 72	36,558 18	89,939 26
Stoneham,	1,443 40	247 20	2,418 71	3,154 14	7,263 45
Wakefield,	2,970 88	508 80	4,978 31	5,389 35	13,847 34
Winchester,	3,853 73	660 00	6,457 71	4,222 07	15,193 51
Winthrop,	3,573 46	612 00	5,988 06	5,364 52	15,538 04
Woburn,	3,601 49	616 80	6,035 03	6,904 33	17,157 65
	\$140,135 69	\$24,000 00	\$234,826 02	\$248,357 19	\$647,318 90 ²

¹ Reading is also assessed \$7,000 for sinking fund requirements in accordance with section 5, chapter 159, General Acts of 1916.

² Exclusive of \$4,120.01, special assessments on Everett, Malden and Revere, which are included on page 6.

METROPOLITAN SEWERAGE LOAN, NORTH SYSTEM, SINKING FUND.

BONDS ISSUED AND AMOUNTS ALREADY PROVIDED FOR.	Due Dates.	Sinking Fund Dec. 1, 1919.	Amount of Dec. 1, 1919, Sinking Fund at Ma- turity of Loan, Accu- mulations reckoned at 4 Per Cent.	Balance.	Portion of Balance to be provided for this Year.	Sinking Fund Require- ments for 1920.
\$5,330,000 (3,331,250)	Jan., 1930 Sunk.	\$2,661,292 02	\$3,954,539 90	\$4,706,710 10	\$176,501 63	\$123,579 27
265,000 (155,652)	Jan., 1930 Sunk.	121,206 75	180,106 85	240,545 04	9,020 43	6,315 73
200,000 (117,473)	Jan., 1930 Sunk.	91,476 79	135,929 69	181,543 42	8,396 37	5,878 79
250,000 (60,417)	July, 1943 Sunk.	29,959 69	75,988 06	234,428 94	3,907 14	1,602 69
50,000 (12,083)	Jan., 1943 Sunk.	6,072 77	15,100 61	46,982 39	783 03	327 62
55,000 (13,292)	July, 1943 Sunk.	8,663 58	21,973 81	46,318 19	771 96	316 65
300,000 (42,500)	Jan., 1949 Sunk.	20,984 30	66,176 59	276,323 41	4,605 39	1,519 34
113,000 (16,008)	Jan., 1949 Sunk.	6,559 18	20,685 18	108,322 82	1,805 38	595 60
\$6,563,000 (3,748,675)	- Sunk.	\$2,946,215 08	\$4,470,500 69	\$5,841,174 31	\$205,791 33	\$140,135 69

METROPOLITAN SEWERAGE LOAN, NORTH SYSTEM.

Amounts provided for and to be provided for.

BONDS ISSUED.	Due Dates.	Amount provided for.	Amount to be provided for.	1920.
\$5,330,000	1930	$\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$	$\frac{3}{8}$	$\frac{3}{80}$
265,000	1930	$\frac{70}{240} + \frac{1}{8}$	$\frac{3}{8}$	$\frac{3}{80}$
200,000	1930	$\frac{40}{240} + \frac{1}{8}$	$\frac{111}{240}$	$\frac{111}{2400}$
300,000	1943	$\frac{1}{8} + \frac{1}{10} + \frac{1}{60}$	$\frac{3}{60} + \frac{1}{8} + \frac{3}{8}$	$\frac{1}{60}$
55,000	1943	$\frac{1}{8} + \frac{1}{10} + \frac{1}{60}$	$\frac{3}{60} + \frac{1}{8} + \frac{3}{8}$	$\frac{1}{60}$
300,000	1949	$\frac{1}{8} + \frac{1}{60}$	$\frac{9}{60} + \frac{1}{8} + \frac{3}{8}$	$\frac{1}{60}$
113,000	1949	$\frac{1}{8} + \frac{1}{60}$	$\frac{9}{60} + \frac{1}{8} + \frac{3}{8}$	$\frac{1}{60}$

NORTH METROPOLITAN SYSTEM.

Ratios of Contributions on the Basis of the Valuations of 1919 and the Census Returns of 1915. Assessments made by the Metropolitan Water and Sewerage Board.

CITIES AND TOWNS.	State Valuation, General Acts of 1919, Chapter 343.	Proportion for Interest and Sinking Funds (Per Cent).	Population, Massachusetts Census 1915.	Proportion for Maintenance and Operation (Per Cent).
Arlington,	\$20,954,167	3.18	14,889	2.52
Belmont,	13,658,727	2.07	8,081	1.37
Boston: —				
Charlestown, }	92,960,800	14.09	105,281	17.85
East Boston, }				
Cambridge,	150,074,048	22.74	108,822	18.45
Chelsea,	39,697,831	6.02	43,426	7.36
Everett,	42,490,326	6.44	37,718	6.39
Lexington,	5,944,700 ¹	0.90	3,940 ²	0.67
Malden,	43,759,862	6.63	48,907	8.29
Medford,	35,585,712	5.39	30,509	5.17
Melrose,	19,835,595	3.01	16,880	2.86
Reading,	8,690,009	1.32	—	—
Revere,	25,158,868	3.81	25,178	4.27
Somerville,	88,319,796	13.38	86,854	14.72
Stoneham,	6,803,432	1.03	7,489	1.27
Wakefield,	13,967,851	2.12	12,781	2.17
Winchester,	18,139,162	2.75	10,005	1.70
Winthrop,	16,799,768	2.55	12,758	2.16
Woburn,	16,979,838	2.57	16,410	2.78
	\$659,820,492	100.00	589,928	100.00

¹ 66.67 per cent of the town valuation, derived from figures certified by the board of assessors.

² Population of Lexington sewerage district, certified by the board of assessors.

METROPOLITAN SEWERAGE LOAN.

South System — Assessment.

CITIES AND TOWNS.	Sinking Fund.	Serial Bonds.	Interest.	Maintenance.	Total.
Boston,	\$54,894 27	\$12,843 90	\$160,607 65	\$92,411 75	\$320,757 57
Brookline,	17,378 76	4,066 20	50,846 15	13,648 51	85,939 62
Dedham,	2,423 34	567 00	7,090 10	4,499 32	14,579 76
Milton,	3,611 92	845 10	10,567 62	3,512 48	18,537 12
Newton,	14,251 51	3,334 50	41,696 54	17,579 14	76,861 69
Quincy,	9,070 19	2,122 20	26,537 23	16,575 57	54,305 19
Waltham,	5,850 62	1,368 90	17,117 53	12,293 69	36,630 74
Watertown,	5,077 46	1,188 00	14,855 45	6,740 62	27,861 53
Wellesley, ¹	2,838 76	664 20	8,305 54	—	11,808 50
	\$115,396 83	\$27,000 00	\$337,623 81	\$167,261 08	\$647,281 72

¹ Wellesley is also assessed \$6,775.23 for sinking fund requirements in accordance with section 5, chapter 343, Acts of 1914.

METROPOLITAN SEWERAGE LOAN, SOUTH SYSTEM, SINKING FUND.

BONDS ISSUED AND AMOUNTS ALREADY PROVIDED FOR.	Due Dates.	Sinking Fund Dec. 1, 1919.	Amount of Dec. 1, 1919, Sinking Fund at Ma- turity of Loan, Accu- mulations reckoned at 4 Per Cent.	Balance.	Portion of Balance to be provided for this Year.	Sinking Fund Require- ments for 1920.
\$800,000 (500,000)	Jan., 1930 Sunk.	\$401,015 49	\$595,887 91	\$704,112 09	\$26,404 20	\$18,487 14
839,000 (384,542)	Mar., 1935 Sunk.	257,333 02	466,123 14	757,418 86	25,247 29	14,501 40
65,000 (27,625)	Mar., 1936 Sunk.	17,863 93	33,665 30	58,959 70	1,965 32	1,084 99
1,024,912 (333,096)	July, 1939 Sunk.	195,152 36	422,455 04	936,552 96	31,218 43	15,003 91
3,586,000 (1,045,917)	July, 1940 Sunk.	589,930 43	1,328,641 56	3,303,275 44	110,109 18	50,864 74
996,000 (240,700)	Jan., 1943 Sunk.	121,398 82	301,871 67	934,828 33	15,580 47	6,518 88
392,000 (88,200)	July, 1944 Sunk.	41,272 61	108,910 64	371,289 36	6,188 15	2,439 79
175,000 (33,542)	Jan., 1946 Sunk.	22,257 78	62,329 08	146,212 92	2,436 88	905 36
1,000,000 (191,667)	Jan., 1946 Sunk.	103,133 55	288,807 78	902,859 22	15,047 65	5,590 62
\$8,877,912 (2,845,289)	— Sunk.	\$1,749,357 99	\$3,608,692 12	\$8,115,508 88	\$234,197 57	\$115,396 83

METROPOLITAN SEWERAGE LOAN, SOUTH SYSTEM.

Amounts provided for and to be provided for.

BONDS ISSUED.	Due Dates.	Amount provided for.	Amount to be provided for.	1920.
\$800,000	1930	$\frac{1}{8} + \frac{1}{6} + \frac{1}{3}$	$\frac{3}{8}$	$\frac{3}{80}$
839,000	1935	$\frac{1}{8} + \frac{1}{6} + \frac{5}{30}$	$\frac{5}{30} + \frac{3}{8}$	$\frac{1}{30}$
65,000	1936	$\frac{1}{8} + \frac{1}{6} + \frac{4}{30}$	$\frac{6}{30} + \frac{3}{8}$	$\frac{1}{30}$
1,024,912	1939	$\frac{1}{8} + \frac{1}{6} + \frac{1}{30}$	$\frac{9}{30} + \frac{3}{8}$	$\frac{1}{30}$
3,586,000	1940	$\frac{1}{8} + \frac{1}{6}$	$\frac{10}{30} + \frac{3}{8}$	$\frac{1}{30}$
996,000	1943	$\frac{1}{8} + \frac{7}{60}$	$\frac{3}{30} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{60}$
392,000	1944	$\frac{1}{8} + \frac{6}{60}$	$\frac{4}{60} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{60}$
175,000	1946	$\frac{1}{8} + \frac{4}{60}$	$\frac{6}{60} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{60}$
1,000,000	1946	$\frac{1}{8} + \frac{4}{60}$	$\frac{6}{60} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{60}$

SOUTH METROPOLITAN SYSTEM.

Ratios of Contribution on the Basis of the Valuations of 1919 and the Census Returns of 1915. Assessments made by the Metropolitan Water and Sewerage Board.

CITIES AND TOWNS.	State Valuation, General Acts of 1919, Chapter 343.	Proportion for Interest and Sinking Funds (Per Cent).	Population, Massachusetts Census 1915.	Proportion for Maintenance and Operation (Per Cent).
Waltham,	\$33,531,618	5.07	30,154	7.35
Watertown,	29,115,299	4.40	16,515	4.03
Newton,	81,640,920	12.35	43,113	10.51
Boston,	314,539,900	47.57	226,645	55.25
Brighton,	\$59,700,800		34,782	
Back Bay,	68,956,700		23,127	
Roxbury,	47,922,600		51,588	
West Roxbury,	42,503,400		37,196	
Dorchester,	75,651,500		62,002	
Hyde Park,	19,804,900		17,950	
Brookline,	99,579,927	15.06	33,490	8.16
Dedham,	13,878,200 ¹	2.10	11,043	2.69
Milton,	20,733,252	3.13	8,600	2.10
Quincy,	51,947,249	7.86	40,674	9.91
Wellesley,	16,305,003	2.46		
	\$661,271,368	100.00	410,234	100.00

¹ 95.45 per cent of the town valuation derived from figures certified by the chairman of the board of assessors.

METROPOLITAN PARKS AND SEWERAGE LOANS.

Comparison of Assessments, 1919 and 1920.

CITIES AND TOWNS.	PARKS.		SEWER.	
	1919.	1920.	1919.	1920.
Arlington, . .	\$13,287 20	\$15,249 54	\$18,507 75	\$18,945 58
Belmont, . .	7,990 12	9,788 98	11,366 29	11,661 00
Boston, . .	892,611 17	884,913 01	396,049 17	421,303 04
Braintree, . .	5,690 11	6,495 22	—	—
Brookline, . .	74,364 91	51,558 84	80,153 13	85,939 62
Cambridge, . .	83,345 90	92,606 16	133,430 27	136,545 79
Canton, . .	4,091 22	4,238 07	—	—
Chelsea, . .	22,191 90	26,114 45	41,560 71	42,296 59
Cohasset, . .	376 46	216 33	—	—
Dedham, . .	9,108 75	8,571 45	13,495 03	14,579 76
Dover, . .	3,379 20	1,511 41	—	—
Everett, . .	22,111 07	26,745 57	42,504 33	43,309 83
Hingham, . .	5,189 58	4,369 33	—	—
Hull, . .	4,010 41	5,454 58	—	—
Lexington, . .	—	—	5,129 19	5,254 64
Lynn, . .	59,465 56	66,732 66	—	—
Malden, . .	34,345 16	33,243 89	48,017 81	48,786 65
Medford, . .	24,343 90	28,595 07	33,634 25	34,344 10
Melrose, . .	12,182 89	12,381 78	18,714 38	19,111 76
Milton, . .	17,589 25	11,035 84	17,262 17	18,537 12
Nahant, . .	6,840 13	2,296 33	—	—
Needham, . .	5,139 68	6,204 88	—	—
Newton, . .	49,947 73	47,046 06	71,432 96	76,861 69
Quincy, . .	29,455 74	37,146 33	50,273 57	54,305 19
Reading, . .	—	—	12,046 99	12,266 29
Revere, . .	14,322 69	16,837 78	25,972 28	26,431 96
Saugus, . .	5,073 60	5,684 56	—	—
Somerville, . .	55,081 40	62,170 94	88,244 86	89,939 26
Stoneham, . .	4,776 26	5,368 97	7,137 93	7,263 45
Swampscott, . .	9,190 91	8,154 02	—	—
Wakefield, . .	7,780 55	8,759 73	13,573 05	13,847 34
Waltham, . .	20,686 68	20,959 06	33,858 76	36,630 74
Watertown, . .	12,306 87	17,134 15	25,876 30	27,861 53
Wellesley, . .	10,006 31	8,450 67	17,877 13	18,583 73
Weston, . .	6,176 42	3,570 45	—	—
Westwood, . .	2,340 65	1,469 09	—	—
Weymouth, . .	7,654 61	9,184 66	—	—
Winchester, . .	9,824 29	10,105 02	14,797 67	15,193 51
Winthrop, . .	10,218 07	10,492 30	15,191 94	15,538 04
Woburn, . .	9,113 73	10,794 97	16,830 49	17,157 65
	\$1,571,611 08	\$1,581,652 15	\$1,252,938 41	\$1,312,495 86

STATEMENT IV.

CHARLES RIVER BASIN LOAN.

Gross Charles River Basin debt, April 1, 1920: —

Bonds outstanding (sinking fund),	\$4,125,000 00	
Bonds outstanding (serial),	293,000 00	
	<hr/>	\$4,418,000 00

a decrease for the year of \$10,000.

Sinking fund April 1, 1920,	1,125,513 33	
	<hr/>	

an increase for the year of \$89,180.32.

Net Charles River Basin debt, April 1, 1920,	\$3,292,486 67	
--	----------------	--

a decrease for the year of \$99,180.32.

TOTAL CHARLES RIVER BASIN ASSESSMENT FOR 1920.

District.

Serial bonds,	\$10,000 00	
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Interest: —

One year on \$1,125,000,	\$142,250 00	
Six months on \$303,000,	5,470 00	
Six months on \$293,000,	5,290 00	
Interest on advances and temporary loans, estimated, 1920,	5,000 00	
	<hr/>	\$158,010 00

Adjustment of interest charges

in 1919, \$1,009 13

Less interest on bridge, 41,381 82

42,390 95

\$115,619 05

Maintenance as appropriated by Legislature,	\$199,731 66	
---	--------------	--

Less balance on hand,	22,895 86	
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\$176,835 80

Total Charles River Basin district assessments,	\$302,454 85	
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Charles River Bridge.

Sinking fund,	\$8,722 10	
Interest,	41,381 82	

\$50,103 92

Boston and Cambridge, one-half each.

CHARLES RIVER BASIN LOAN, SINKING FUND.

District.

BONDS ISSUED.	Due Dates.	Sinking Fund Dec. 1, 1919.	Amount of Dec. 1, 1919, Sinking Fund at Ma- turity of Loan, Accu- mulations reckoned at 4 Per Cent.	Balance.	Sinking Fund Require- ments for 1920.
\$177,272 73	Jan., 1944	\$190,859 32	\$493,766 48	—	—
283,636 36	Jan., 1945	327,385 66	881,187 31	—	—
425,454 55	Jan., 1946	317,060 02	887,872 09	—	—
815,454 55	Jan., 1947	408,860 41	1,191,199 02	—	—
283,636 36	Jan., 1948	100,139 05	303,538 00	—	—
602,727 28	Jan., 1949	126,044 97	397,498 48	—	—
336,818 17	Jan., 1950	16,230 76	53,253 62	—	—
\$2,925,000 00	—	\$1,486,580 19 ¹	\$4,208,315 00	—	—

Boston and Cambridge, Charles River Bridge.

\$72,727 27	Jan., 1944	\$24,586 99	\$63,608 27	\$9,119 00	\$232 13
116,363 64	Jan., 1945	40,175 06	108,134 70	8,228 94	196 53
174,545 45	Jan., 1946	46,897 84	131,329 34	43,216 11	969 78
334,545 45	Jan., 1947	73,674 90	214,648 97	119,896 48	2,531 44
116,363 64	Jan., 1948	21,913 22	66,422 59	49,941 05	993 33
247,272 72	Jan., 1949	38,865 94	122,568 57	124,704 15	2,339 33
138,181 83	Jan., 1950	16,998 70	55,773 25	82,408 58	1,459 56
\$1,200,000 00	—	\$263,112 65	\$762,485 69	\$437,514 31	\$8,722 10

¹ Includes \$641,742.48 balance of cost of embankment which is due from city of Boston.

CHARLES RIVER BASIN LOAN.

Proportion of Serial Bonds, Interest and Maintenance Requirements as determined by Metropolitan District Commission.

CITIES AND TOWNS.	Valuation (Chapter 343, General Acts of 1919).	Per Cent.
Arlington,	\$20,954,167	.007604129949
Belmont,	13,658,727	.004956662560
Boston,	1,650,368,499	.598907917960
Braintree,	9,945,392	.003609117612
Brookline,	99,579,927	.036136903235
Cambridge,	150,074,048	.054460888997
Canton,	6,916,966	.002510121654
Chelsea,	39,697,831	.014406082839
Dedham,	14,539,216	.005276186251
Dover,	3,026,036	.001098128643
Everett,	42,490,326	.015419460983
Hingham,	7,365,555	.002672911663
Hull,	11,526,682	.004182957395
Lynn,	106,443,504	.038627650370
Malden,	43,759,862	.015880167282
Medford,	35,585,712	.012913821789
Melrose,	19,835,595	.007198207497
Milton,	20,733,252	.007523961343
Nahant,	4,597,237	.001668307194
Needham,	10,882,037	.003949019947
Newton,	81,640,920	.029626955099
Quincy,	51,947,249	.018851316395
Revere,	25,158,868	.009129988401
Saugus,	7,983,680	.002897225177
Somerville,	88,319,796	.032050675452
Stoncham,	6,803,432	.002468920909
Swampscott,	14,797,505	.005369917637
Wakefield,	13,967,851	.005068841635
Waltham,	33,531,618	.012168404532
Watertown,	29,115,299	.010565751295
Wellesley,	16,305,003	.005916978787
Weston,	5,427,288	.001969527265
Westwood,	2,711,339	.000983927163
Weymouth,	14,020,601	.005087984264
Winchester,	18,139,162	.006582583074
Winthrop,	16,799,768	.006096525764
Woburn,	16,979,838	.006161871988
	\$2,755,629,788	1.000000000000

CHARLES RIVER BASIN LOAN — ASSESSMENT.

CITIES AND TOWNS.	Interest Re- quirements.	Maintenance.	Serial Bonds.	Total.
Arlington,	\$879 18	\$1,344 68	\$76 04	\$2,299 90
Belmont,	573 09	876 52	49 57	1,499 18
Boston,	69,245 17	105,908 36	5,989 08	181,142 61
Braintree,	417 28	638 22	36 09	1,091 59
Brookline,	4,178 12	6,390 30	361 37	10,929 79
Cambridge,	6,296 72	9,630 63	544 61	16,471 96
Canton,	290 22	443 88	25 10	759 20
Chelsea,	1,665 62	2,547 51	144 06	4,357 19
Dedham,	610 03	933 02	52 76	1,595 81
Dover,	126 97	194 19	10 98	332 14
Everett,	1,782 78	2,726 71	154 19	4,663 68
Hingham,	309 04	472 67	26 73	808 44
Hull,	483 63	739 70	41 83	1,265 16
Lynn,	4,466 09	6,830 75	386 28	11,683 12
Malden,	1,836 05	2,808 18	158 80	4,803 03
Medford,	1,493 08	2,283 63	129 14	3,905 85
Melrose,	832 25	1,272 90	71 98	2,177 13
Milton,	869 91	1,330 51	75 24	2,275 66
Nahant,	192 89	295 02	16 68	504 59
Needham,	456 58	698 33	39 49	1,194 40
Newton,	3,425 44	5,239 11	296 27	8,960 82
Quincy,	2,179 57	3,333 59	188 51	5,701 67
Revere,	1,055 60	1,614 51	91 30	2,761 41
Saugus,	334 98	512 33	28 97	876 28
Somerville,	3,705 67	5,667 71	320 51	9,693 89
Stoneham,	285 45	436 59	24 69	746 73
Swampscott,	620 86	949 59	53 70	1,624 15
Wakefield,	586 05	896 35	50 69	1,533 09
Waltham,	1,406 90	2,151 81	121 68	3,680 39
Watertown,	1,221 60	1,868 40	105 66	3,195 66
Wellesley,	684 12	1,046 33	59 17	1,789 62
Weston,	227 71	348 28	19 69	595 68
Westwood,	113 76	173 99	9 84	297 59
Weymouth,	588 27	899 74	50 88	1,538 89
Winchester,	761 07	1,164 04	65 83	1,990 94
Winthrop,	704 87	1,078 08	60 97	1,843 92
Woburn,	712 43	1,089 64	61 62	1,863 69
	\$115,619 05	\$176,835 80	\$10,000 00	\$302,454 85 ¹

¹ Exclusive of \$59,103.92, special assessments on Boston and Cambridge, and \$25,591.40, embankment interest on Boston, which are included on page 6.

Analysis of Charles River Basin Debt, July 1, 1920.

DEBT.	Total.	Cambridge, Charles River Bridge.	Boston, Charles River Bridge.	Boston Embank- ment.	District.
Gross debt,	\$4,418,000 00	\$600,000 00	\$600,000 00	\$847,636 43	\$2,370,363 57
Sinking fund,	1,133,929 38	134,539 08	134,539 08	206,752 61	658,098 61
	\$3,284,070 62	\$465,460 92	\$465,460 92	\$640,883 82	\$1,712,264 96

STATEMENT OF THE DEBTS OF THE METROPOLITAN

		METROPOLITAN PARKS.		METROPOLITAN PARKS, NANTASKET.		METROPOLITAN PARKS, BOULEVARDS.	
Bonds outstanding (Sinking Fund).		\$8,785,000 00		\$700,000 00		\$2,567,500 00	
Bonds outstanding (Serial).		205,000 00		—		860,406 25	
Gross debt, .		\$8,990,000 00		\$700,000 00		\$3,427,906 25	
Sinking funds, July 1, 1920.		3,704,919 19		281,978 77		1,013,313 34	
Net debt, .		\$5,285,080 81 5,272,080 81 ²		\$418,021 23		\$2,414,592 91 2,226,280 41 ²	
	Per Cent.		Per Cent.		Per Cent.		Per Cent.
1	Arlington, . .	.007604129949	\$40,089 59	.007586337732	\$3,171 25	.007604129949	\$16,928 93
2	Belmont, . .	.004956662560	26,131 93	.004945064913	2,067 14	.004956662560	11,034 92
3	Boston, . .	.598907917960	3,157,490 94	.597506587396	249,770 44	.598907917960	1,387,336 97
4	Braintree, . .	.003609117612	19,027 56	.003600672964	1,505 16	.003609117612	8,034 91
5	Brookline, . .	.036136903235	190,516 67	.036052349758	15,070 65	.036136903235	80,450 88
6	Cambridge, . .	.054460888997	287,122 21	.054333460879	22,712 54	.054460888997	121,245 21
7	Canton, . .	.002510121654	13,233 57	.002504248446	1,046 83	.002510121654	5,588 23
8	Chelsea, . .	.014406082839	75,950 03	.014372375347	6,007 96	.014406082839	32,071 98
9	Cohasset, . .	—	—	.002339809714	978 09	—	—
10	Dedham, . .	.005276186251	27,816 48	.005263840979	2,200 40	.005276186251	11,746 27
11	Dover, . .	.001098128643	5,789 42	.001095559231	457 97	.001098128643	2,444 74
12	Everett, . .	.015419460983	81,292 64	.015383382379	6,430 58	.015419460983	34,328 04
13	Hingham, . .	.002672911663	14,091 81	.002666657559	1,114 72	.002672911663	5,950 65
14	Hull, . .	.004182957395	22,052 89	.004173170071	1,744 47	.004182957395	9,312 44
15	Lexington, . .	—	—	—	—	—	—
16	Lynn, . .	.038627650370	203,648 09	.038537269018	16,109 40	.038627650370	85,995 98
17	Malden, . .	.015880167282	83,721 53	.015843010712	6,622 71	.015880167282	42,828 71
18	Medford, . .	.012913821789	68,082 71	.012883605904	5,385 62	.012913821789	37,949 79
19	Melrose, . .	.007198207497	37,949 33	.007181365062	3,001 96	.007198207497	16,025 23
20	Milton, . .	.007523961343	39,666 93	.007506356705	3,137 82	.007523961343	16,750 45
21	Nahant, . .	.001668307194	8,795 45	.001664403673	695 76	.001668307194	3,714 12
22	Needham, . .	.003949019947	20,819 55	.003939779992	1,646 91	.003949019947	8,791 63
23	Newton, . .	.029626955099	162,695 70	.029557633662	12,355 72	.029626955099	65,957 91
24	Quincy, . .	.018851316395	99,385 66	.018807207901	7,861 81	.018851316395	82,468 32
25	Reading, . .	—	—	—	—	—	—
26	Revere, . .	.009129988401	48,134 04	.009108625965	3,807 60	.009129988401	20,325 91
27	Saugus, . .	.002897225177	15,274 41	.002890446221	1,208 27	.002897225177	6,450 04
28	Somerville, . .	.032050675452	168,973 75	.031975682970	13,366 51	.032050675452	77,678 79
29	Stoneham, . .	.002468920909	13,016 35	.002463144103	1,029 65	.002468920909	6,934 01
30	Swampscott, . .	.005369917637	28,310 64	.005357353052	2,239 49	.005369917637	11,954 94
31	Wakefield, . .	.005068841635	26,723 34	.005056981511	2,113 92	.005068841635	11,281 66
32	Waltham, . .	.012168404532	64,152 81	.012139932781	5,074 75	.012168404532	27,090 28
33	Watertown, . .	.010565751295	55,703 50	.010541029447	4,406 37	.010565751295	23,522 32
34	Wellesley, . .	.005916978787	31,194 79	.005903134182	2,467 64	.005916978787	13,172 85
35	Weston, . .	.001969527265	12,983 51	.001964918946	821 38	.001969527265	4,384 72
36	Westwood, . .	.000983927163	5,187 34	.000981624960	410 34	.000983927163	2,190 50
37	Weymouth, . .	.005087984264	26,824 26	.005076079349	2,121 91	.005087984264	11,327 28
38	Winchester, . .	.006582583074	34,703 91	.006567181082	2,745 22	.006582583074	14,654 68
39	Winthrop, . .	.006096525764	32,141 38	.006082261054	2,542 51	.006096525764	13,572 57
40	Woburn, . .	.006161871988	32,485 89	.006147454380	2,569 76	.006161871988	13,718 05
		1.000000000000	\$5,281,180 81 ³	1.000000000000	\$418,021 23	1.000000000000	\$2,345,217 01 ⁴

¹ See page 39 for details.² District proportion.

DISTRICT (CHAPTER 526, ACTS OF 1911).

METROPOLITAN SEWERAGE, NORTH SYSTEM.		METROPOLITAN SEWERAGE, SOUTH SYSTEM.		METROPOLITAN WATER.		CHARLES RIVER BASIN.			
\$6,563,000 00		\$8,877,912 00		\$41,398,000 00		\$4,125,000 00			
781,000 00		882,000 00		1,328,000 00		293,000 00		TOTAL.	
\$7,344,000 00		\$9,759,912 00		\$42,726,000 00		\$4,418,000 00			
3,013,171 30		1,788,999 49		16,326,867 58		1,133,929 38			
\$4,330,828 70 4,285,828 70 ²		\$7,970,912 51		\$26,399,132 42		\$3,284,070 62 ¹ 1,712,264 96 ²			
Per Cent.		Per Cent.		Per Cent.		Per Cent.			
.0318	\$136,289 35	-	-	.009373	\$247,439 07	.007604129949	\$13,020 29	\$456,938 48	1
.0207	88,716 65	-	-	.005337	140,892 17	.004956662560	8,487 12	277,329 93	2
.1409	603,873 26	.4757	\$3,791,763 08	.748893	19,770,125 47	.598907917960	2,131,833 78	31,092,193 94	3
-	-	-	-	-	-	.003609117612	6,179 77	34,747 40	4
-	-	.1506	1,200,419 43	-	-	.036136903235	61,875 95	1,548,333 58	5
.2274	974,597 45	-	-	-	-	.054460888997	558,712 39	1,964,389 80	6
-	-	-	-	-	-	.002510121654	4,297 99	24,166 62	7
.0602	258,006 89	-	-	.023527	621,092 39	.014406082839	24,667 03	1,017,796 28	8
-	-	-	-	-	-	-	-	978 09	9
-	-	.0210	167,389 16	-	-	.005276186251	9,034 23	218,186 54	10
-	-	-	-	-	-	.001098128643	1,880 29	10,572 42	11
.0644	297,007 37	-	-	.022659	598,177 94	.015419460983	26,402 20	1,043,638 77	12
-	-	-	-	-	-	.002672911663	4,576 73	25,733 91	13
-	-	-	-	-	-	.004182957395	7,162 33	40,272 13	14
.0090	38,572 46	-	-	.003636	95,987 25	-	-	134,559 71	15
-	-	-	-	-	-	.038627650370	66,140 77	371,894 24	16
.0663	305,150 44	-	-	.021697	572,781 98	.015880167282	27,191 05	1,038,296 42	17
.0539	231,006 17	-	-	.015159	400,184 45	.012913821789	22,111 88	764,720 62	18
.0301	129,003 44	-	-	.009194	242,713 62	.007198207497	12,325 24	441,019 02	19
-	-	.0313	249,489 56	.005266	139,017 83	.007523961343	12,883 02	460,945 61	20
-	-	-	-	.001717	45,327 31	.001668307194	2,856 58	61,389 22	21
-	-	-	-	-	-	.003949019947	6,761 77	38,019 86	22
-	-	.1235	984,407 69	.002604	68,743 34	.029626955099	50,729 20	1,344,889 56	23
-	-	.0786	626,513 72	.033856	893,769 03	.018851316395	32,278 45	1,742,276 99	24
.0132	56,572 94	-	-	-	-	-	-	56,572 94	25
.0381	166,290 07	-	-	.013982	369,112 67	.009129988401	15,632 96	623,303 25	26
-	-	-	-	-	-	.002897225177	4,960 82	27,893 54	27
.1338	573,443 88	-	-	.050632	1,336,640 87	.032050675452	54,879 25	2,224,983 05	28
.0103	44,144 04	-	-	.004562	120,432 84	.002468920909	4,227 45	189,784 34	29
-	-	-	-	.005466	144,297 66	.005369917637	9,194 72	195,997 45	30
.0212	90,859 57	-	-	-	-	.005068841635	8,679 20	139,660 69	31
-	-	.0507	404,125 27	-	-	.012168404532	20,835 53	521,278 64	32
-	-	.0440	350,720 15	.015302	403,959 52	.010565751295	18,091 37	856,403 23	33
-	-	.0246	196,084 45	-	-	.005916978787	10,131 43	253,051 16	34
-	-	-	-	-	-	.001969527265	3,372 35	21,561 96	35
-	-	-	-	-	-	.000983927163	1,684 74	9,472 92	36
-	-	-	-	-	-	.005087984264	8,711 98	48,985 43	37
.0275	117,860 29	-	-	-	-	.006582583074	11,271 13	181,235 23	38
.0255	109,288 63	-	-	.007138	188,437 01	.006096525764	10,438 87	356,420 97	39
.0257	110,145 80	-	-	-	-	.006161871988	10,550 76	169,470 26	40
1.0000	\$4,330,828 70	1.0000	\$7,970,912 51	1.000000	\$26,399,132 42	1.000000000000	\$3,284,070 62	\$50,029,364 20	

³ Exclusive of \$3,900, share of county of Middlesex.⁴ Exclusive of \$69,375, share of certain counties and street railways.

SINKING FUND TABLE.

One dollar put in each year, with interest at the rate of 4 per cent per annum, compounded semiannually, amounts to the following in from 1 to 36 years, both inclusive:—

To find what amount must be put in each year to sink a given sum at maturity, divide the sum to be sunk by the figures which stand against the number of years and the result will be the amount necessary.

For instance, to find the amount necessary each year, to sink three hundred thousand dollars (\$300,000) in thirty years, divide \$300,000 by 58.74218829.

\$1 for 1 year	= 1.04040000	\$1 each year for 19 years	= 28.90197165
\$1 in 2 years	= 1.08243216	\$1 in 20 years	= 2.20803964
\$1 each year for 2 years	= 2.12283216	\$1 each year for 20 years	= 31.11001129
\$1 in 3 years	= 1.12616241	\$1 in 21 years	= 2.29724444
\$1 each year for 3 years	= 3.24899457	\$1 each year for 21 years	= 33.40725573
\$1 in 4 years	= 1.17165938	\$1 in 22 years	= 2.39005311
\$1 each year for 4 years	= 4.42065395	\$1 each year for 22 years	= 35.79730884
\$1 in 5 years	= 1.21899441	\$1 in 23 years	= 2.48661126
\$1 each year for 5 years	= 5.63964836	\$1 each year for 23 years	= 38.28392010
\$1 in 6 years	= 1.26824179	\$1 in 24 years	= 2.58707035
\$1 each year for 6 years	= 6.90789015	\$1 each year for 24 years	= 40.87099045
\$1 in 7 years	= 1.31947875	\$1 in 25 years	= 2.69158799
\$1 each year for 7 years	= 8.22736890	\$1 each year for 25 years	= 43.56257844
\$1 in 8 years	= 1.37278570	\$1 in 26 years	= 2.80032815
\$1 each year for 8 years	= 9.60015460	\$1 each year for 26 years	= 46.36290659
\$1 in 9 years	= 1.42824624	\$1 in 27 years	= 2.91346140
\$1 each year for 9 years	= 11.02840084	\$1 each year for 27 years	= 49.27636799
\$1 in 10 years	= 1.48594738	\$1 in 28 years	= 3.03116524
\$1 each year for 10 years	= 12.51434822	\$1 each year for 28 years	= 52.30753323
\$1 in 11 years	= 1.54597966	\$1 in 29 years	= 3.15362432
\$1 each year for 11 years	= 14.06032788	\$1 each year for 29 years	= 55.46115755
\$1 in 12 years	= 1.60843724	\$1 in 30 years	= 3.28103074
\$1 each year for 12 years	= 15.66876512	\$1 each year for 30 years	= 58.74218829
\$1 in 13 years	= 1.67341810	\$1 in 31 years	= 3.41358438
\$1 each year for 13 years	= 17.34218322	\$1 each year for 31 years	= 62.15577267
\$1 in 14 years	= 1.74102419	\$1 in 32 years	= 3.55149318
\$1 each year for 14 years	= 19.08320741	\$1 each year for 32 years	= 65.70726585
\$1 in 15 years	= 1.81136157	\$1 in 33 years	= 3.69497350
\$1 each year for 15 years	= 20.89456898	\$1 each year for 33 years	= 69.40223935
\$1 in 16 years	= 1.88454057	\$1 in 34 years	= 3.84425042
\$1 each year for 16 years	= 22.77910955	\$1 each year for 34 years	= 73.24648977
\$1 in 17 years	= 1.96067601	\$1 in 35 years	= 3.99955813
\$1 each year for 17 years	= 24.73978556	\$1 each year for 35 years	= 77.24604790
\$1 in 18 years	= 2.03988732	\$1 in 36 years	= 4.16114027
\$1 each year for 18 years	= 26.77967288	\$1 each year for 36 years	= 81.40718817
\$1 in 19 years	= 2.12229877		
1 each year for 19 years	= 28.90197165		

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